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PATENT

I hereby certify that on the date specified below, this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date June 26, 2003

Ayesha S. Wilks  
Ayesha S. Wilks

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants : James R. Peterson,  
Robert H. Mullis and  
Gregory M. Hunter

Attorney Docket No.: 500891.01

Serial No. : 09/823,935

Group Art Unit : 2672

Filed : March 30, 2001

Examiner : Jin-Cheng Wang

Title : MULTI-SAMPLE METHOD AND SYSTEM FOR RENDERING ANTIALIASED  
IMAGES

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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449 (copies of the cited references, as required under 37 C.F.R. § 1.98, are enclosed). Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

A fee of \$180 is submitted in accordance with 37 C.F.R. § 1.97(c). The Commissioner is authorized to charge any other fees which may be required, or credit any overpayment to Deposit Account No. 50-1266. A duplicate copy of this sheet is enclosed.

07/02/2003 SDENBOB1 00000115 09823935

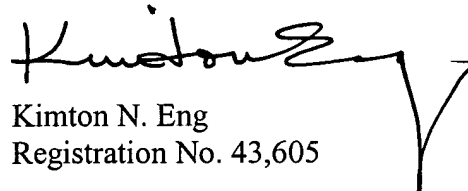
01 FC:1806

180.00 OP

Please acknowledge receipt of this Supplemental Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,

DORSEY & WHITNEY LLP



Kimton N. Eng  
Registration No. 43,605

KNE:asw

Enclosures:

- Postcard
- Check
- Fee Transmittal Sheet (+ copy)
- Copy of Supplemental Information Disclosure Statement
- Form PTO-1449
- Cited References (21)

1420 Fifth Avenue, Suite 3400  
Seattle, WA 98101  
Telephone (206) 903-8800  
Facsimile (206) 903-8820

500891.01 supp ids.doc

# **FREE TRANSMITTAL SHEET (FOR FY 2003)**



Complete if Known

2672  
**RECEIVED**

Application No.	09/823,935
Filing Date	March 30, 2001
First Named Inventor	James R. Peterson
Group Art Unit	2672
Examiner	Jin-Cheng Wang
Atty. Docket Number	500891.01

JUL 03 2003  
Technology Center 2600

## **METHOD OF PAYMENT (Check One)**

1. ☒ The Commissioner is hereby authorized to charge any additional fee required under 37 C.F.R. §§ 1.16 and 1.17 and 1.136(a)(3) and credit any over payments to Deposit Account No.: 50-1266; Deposit Account Name: DORSEY & WHITNEY LLP

2. ☒ Check Enclosed

## **FEE CALCULATION**

### **1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
101	750	201	375	<input type="checkbox"/> Utility Filing Fee
106	330	206	165	<input type="checkbox"/> Design Filing Fee
108	750	208	375	<input type="checkbox"/> Reissue Filing Fee
114	160	214	80	<input type="checkbox"/> Provisional Filing Fee
<b>Subtotal (1)</b>				<b>\$0</b>

### **2. EXTRA CLAIM FEES**

Current Claims	Prior	Extra	Fee	Fee Paid
Total	89	- 97	= 0 x \$	= \$0
Ind.	17	- 18	= 0 x \$	= \$0
Multiple Dependent Claims				x \$ = \$
<b>Subtotal (2)</b>				<b>\$0</b>

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent Claim
109	84	209	42	Reissue independent claims over original patent
110	18	210	9	Reissue claims in excess of 20 and over original patent

## **FEE CALCULATION (Continued)**

### **3. ADDITIONAL FEES**

Large Entity		Small Entity		Fee Description	Fee paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
105	130	205	65	Surcharge - Late filing fee or oath	\$
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	\$
139	130	139	130	Non-English specification	\$
147	2,520	147	2,520	For Filing a Request for Reexamination	\$
195	300	196	300	Publication (early or Republication)	\$
115	110	215	55	Extension for reply within first month	\$
116	410	216	205	Extension for reply within 2 <sup>nd</sup> month	\$
117	930	217	465	Extension for reply within 3 <sup>rd</sup> month	\$
118	1,450	218	725	Extension for reply within 4 <sup>th</sup> month	\$
128	1,970	280	985	Extension for reply within 5 <sup>th</sup> month	\$
120	320	220	160	Filing a brief in support of an appeal	\$
121	280	270	140	Request for oral hearing	\$
148	110	248	55	Terminal Disclaimer Fee	\$
140	110	240	55	Petition to revive - unavoidable	\$
141	1,300	241	650	Petition to revive - unintentional	\$
142	1,300	242	650	Utility/Reissue issue fee (+ advance copies)	\$
143	470	243	235	Design issue fee (+ advance copies)	\$
122	130	122	130	Petitions to the Commissioner	\$
123	50	123	50	Petitions related to provisional applications	\$
126	180	126	180	Submission of IDS	\$180
581	40	81	40	Recording each patent assignment per property (times number of properties)	\$
179	750	279	375	Request for Continued Examination (RCE)	\$
Other fee (specify)					\$
<b>Subtotal (3)</b>					<b>\$180</b>
<b>Total Amount of Payment:</b>					<b>\$180</b>

Submitted by:

Name: Kimton N. Eng	Reg. No.: 43,605	Telephone: (206) 903-8800
Signature: <i>Kimton N. Eng</i>		Date: <i>June 26, 2003</i>

FORM PTO-1449 (REV. 7-80)  <b>INFORMATION DISCLOSURE STATEMENT</b> (Indicate by checkmark if the information is contained in the enclosed sheets if necessary)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. <b>500891.01</b>	APPLICATION NO. <b>09/823,935</b>
	APPLICANT(S) <b>James R. Peterson et al.</b>		
	FILING DATE <b>March 30, 2001</b>	GROUP ART UNIT <b>2672</b>	

### U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						
AB						

### FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
AC							

### OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

AD	Abrash, M., "Inside Xbox Graphics", Dr. Dobb's Journal: Software Tools for the Professional Programmer, Vol. 25, No. 8, August 2000, pp. 21-26.
AE	Author Unknown, "BB Scunthorpe – Four Queens Busy", Steel Times, Vol. 223, No. 2, February 1995, pp. 70-71.
AF	Bowers, G., "Reconstruction and Repair of Blast Furnaces", Metal Construction and British Welding Journal, August 1970, pp. 317-321.
AG	Brabham, M., "The Unusual Suspects", www.insideelectronics.com, March/April 2000, pp. 15-16.
AH	Ding, J. et al., "Aliasing-Free Space and Time Compactions with Limited Overhead", IEEE 2000 First International Symposium on Quality Electronic Design, March 2000, pp. 355-360.
AI	Ewins, J. et al., "Implementing An Anisotropic Texture Filter" Computers & Graphics 24 (2000), pp. 253-267.
AJ	Hart, J. et al., "Antialiased Parameterized Solid Texturing Simplified for Consumer-Level Hardware Implementation", Proceedings of the Eurographics/SIGGRAPH Workshop on Graphics Hardware, Los Angeles, California, August 1999, pp. 45-53, 140.
AK	Horita, K. et al., "Advanced Shallow Trench Isolation to Suppress the Inverse Narrow Channel Effects for 0.24μm Pitch Isolation and Beyond", Symposium on VLSI Technology, Digest of Technical Papers, June 2000, pp. 178-179.
AL	Igehy, H., "Tracing Ray Differentials", Computer Graphics, Proceedings, Annual Conference Series 1999, Siggraph 99, Conference Proceedings, August 1999, pp. 179-186.
AM	Jouppi, N. et al., "Z <sup>3</sup> : An Economical Hardware Technique for High-Quality Antialiasing and Transparency", Proceedings of the Eurographics/SIGGRAPH Workshop on Graphics Hardware, Los Angeles, California, August 1999, pp. 85-93, 143.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 500891.01	APPLICATION NO. 09/823,935
<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>				APPLICANT(S) James R. Peterson et al.	
				FILING DATE March 30, 2001	GROUP ART UNIT 2672
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>					
	AN	Keating, B., "Efficient Shadow Antialiasing Using an A-Buffer", Journal of Graphics Tools, Vol. 4, No. 3, 1999, pp. 23-33.			
	AO	Kiuchi, H. et al., "3.1.3 KSP Data-Acquisition System", Journal of the Communications Research Laboratory, Vol. 46, No. 1, March 1999, pp. 25-32			
	AP	Lee, J. et al., "SPARP: A Single Pass Antialiased Rasterization Processor", Computers & Graphics 24 (2000), pp. 233-243			
	AQ	Okumura, A. et al., "Parallel Programming with Layered Streams", Symposium on Logic Programming, IEEE, August 1987, pp. 224-232			
	AR	Sauceda, A. et al., "Antialiasing Filter with High Pupil Apertures", 18 <sup>th</sup> Congress of the International Commission for Optics: Optics for the Next Millennium, San Fransisco, 1999, SPIE Vol. 3749, pg. 767.			
	AS	Shahin, A. et al., "Cooperation of Fuzzy Segmentation Operators for Correction Aliasing Phenomenon in 3D color Doppler Imaging", Artificial Intelligence in Medicine, Vol. 19, No. 2, June 2000, pp. 121-154.			
	AT	Spero, C. et al., "Corrosion Performance of Mild Steel in Coal Leachate", Materials Forum, Vol. 12, January 1988, pp. 73-78.			
	AU	Waele, S.D. et al., "Error Measure for Resampled Irregular Data", IEEE Transactions on Instrumentation and Measurement, Vol. 49, No. 2, April 2000, pp. 216-222.			
	AV	Wan, M. et al., "Interactive Stereoscopic Rendering of Voxel-based Terrain", Center for Visual Computing and Department of Computer Science State University of New York at Stony Brook, IEEE, March 2000, pp. 197-206			
	AW	Yang, X. et al., "Scalable Wavelet Video Coding Using Aliasing-Reduced Hierarchical Motion Compensation", IEEE Transactions on Image Processing, Vol. 9, No. 5, May 2000, pp. 778-791.			
	AX	Zhang, H., "Forward Shadow Mapping", Proceedings of the Eurographics Workshop, Vienna, Austria, June 1998, pp. 131-138, 330.			
	AY				
EXAMINER			DATE CONSIDERED		
<p>* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).</p>					